



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 1  
5 Post Office Square, Suite 100  
Boston, MA 02109-3912

May 23, 2012

REDACTED

Re: EPA's evaluation of two rounds of vapor intrusion data collected on your property at  
REDACTED (Building # 260902)

Dear REDACTED

EPA has reviewed two rounds of indoor air and subslab soil gas validated data collected from the building on your property at REDACTED, Woburn, MA, in March and June 2011, and two rounds of validated groundwater data collected near your property in August 2010 and April 2011. Our review indicates that **vapor intrusion does not pose a health threat inside the building**. The term "vapor intrusion" refers to the movement of volatile contaminants from groundwater into a structure.

The results of the sampling show that the compound tetrachloroethene (also known as perchloroethylene (PCE)) was detected in indoor air and subslab soil gas samples at low levels that do not pose a health concern.

The results of shallow groundwater sampling collected nearest your property did not detect PCE at levels above the federal drinking water maximum contaminant level (MCL) of 5 ug/L.

Please find attached two figures and one table. Figure 1 illustrates our vapor intrusion conclusion regarding indoor air samples collected within your building. Figure 2 shows the locations where the two rounds of indoor air and subslab soil gas samples were collected within your building in March and June 2011. A table is also attached summarizing the two rounds of validated subslab, indoor air, and outdoor air data collected on your property.

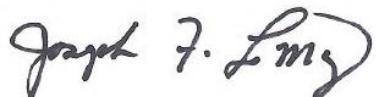
Since 1992, the WR Grace Source Area property (369 Washington Street, Woburn, MA) has been operating a groundwater treatment system on their property that has reduced, and will continue to reduce, PCE concentration in groundwater. WR Grace will continue to collect annual groundwater monitoring data as part of their treatment system's long-term monitoring. In 2012, WR Grace will also progress with a plan to remove some soil contamination from their property which is separate and unrelated to EPA's vapor intrusion evaluation.

In addition, if your building stores any products containing volatile compounds such as cleaning products, personal care products, stored solvents/fuels, etc., EPA recommends that you store these products in a separately contained area from the occupied living spaces within the building.

In conclusion, EPA has determined that **vapor intrusion does not pose a health threat inside your building.**

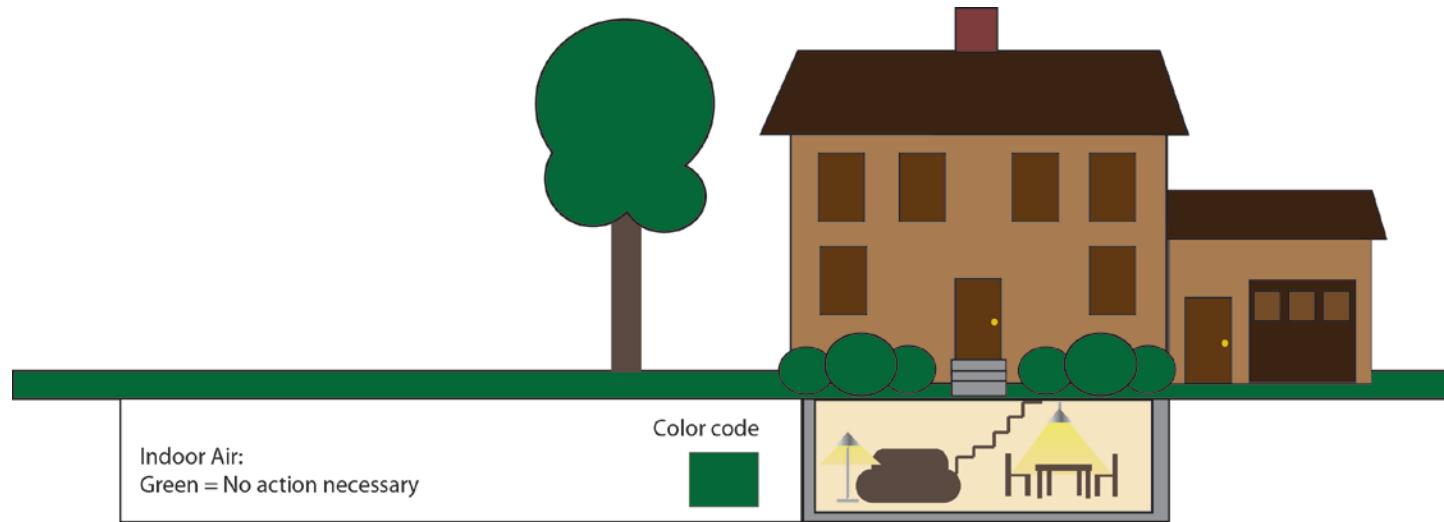
Thank you for your past cooperation and allowing access to your building for the collection of these samples. If you have any questions regarding this letter, or would like to meet and discuss the results, please contact me at (617) 918-1323.

Sincerely,

A handwritten signature in black ink that reads "Joseph F. LeMay". The signature is fluid and cursive, with "Joseph" on the first line and "F. LeMay" on the second line.

Joseph F. LeMay, P.E.  
Office of Site Remediation and Restoration

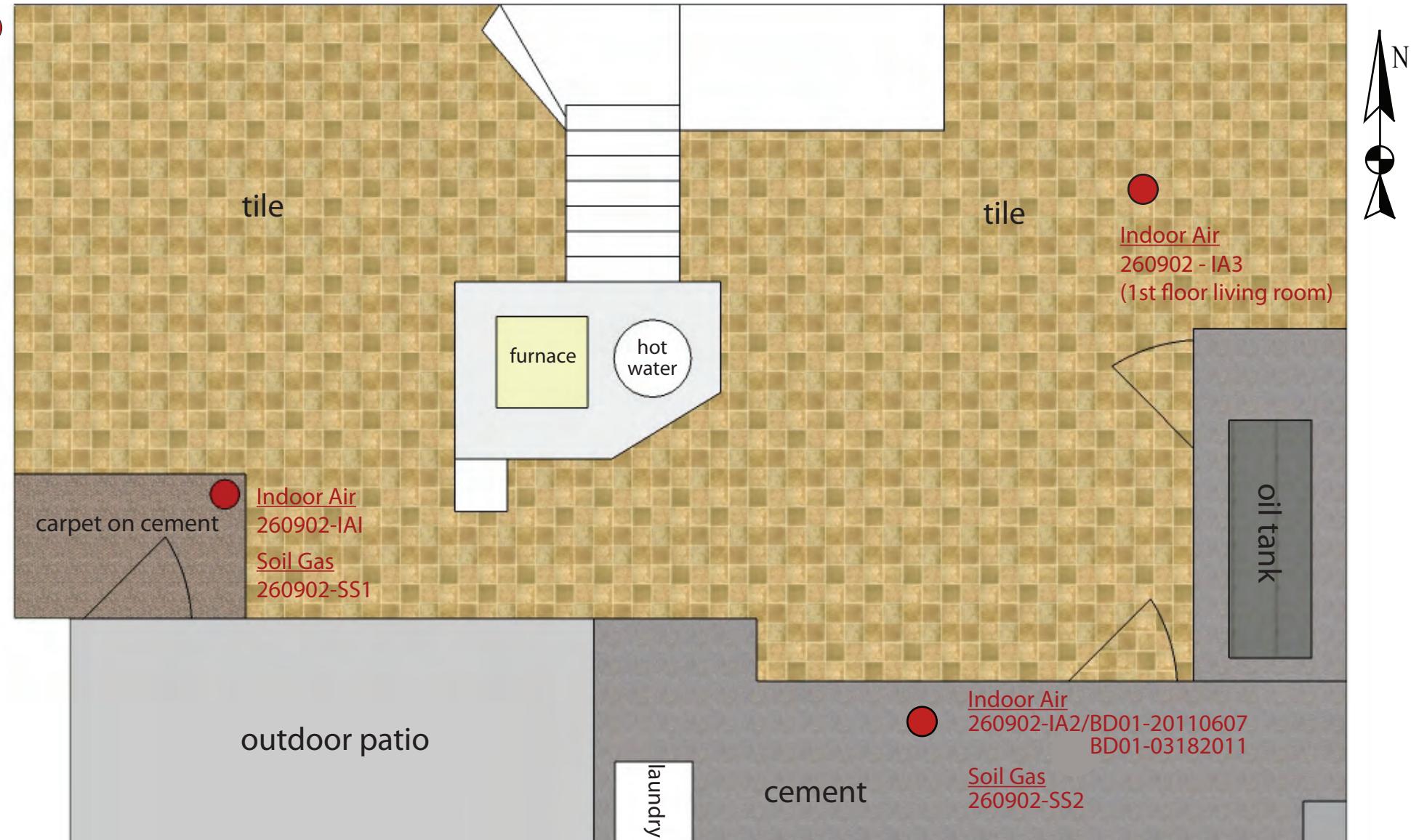
# Figure 1 - Residential Property: REDACTED, Woburn, MA (Building # 260902)



## Legend

<u>Location</u>	<u>Contaminant</u>	<u>EPA Vapor Intrusion Evaluation</u>	<u>EPA Action</u>
Indoor Air	PCE	Does not pose a potential health threat	No Action Necessary.

260902-OA (outside residence)



Not to Scale

Basement Floor Plan and Sampling Locations Residential Structure #1	
Wells G&H Superfund Site Woburn, Massachusetts	
Geosyntec consultants	FIGURE 2
ACTON, MASSACHUSETTS	JULY 2011

DATA SUMMARY TABLE - BUILDING 260902

Compound	Units	IA1	IA1	IA2	IA2 dup (BD01)	IA2	IA2 dup (BD01)	IA3	OA	OA	SS1	SS1	SS2	SS2
		03/18/11	06/17/11	03/18/11	03/18/11	06/07/11	06/07/11	03/18/11	03/18/11	06/07/11	03/18/11	06/07/11	03/18/11	06/07/11
Adjusted C5-C8 Aliphatics	µg/m³	590	89	500	510	85	83	190	<12	22	67J	37	46	30
Adjusted C9-C12 Aliphatics	µg/m³	89	54	72	75	52	52	170	26	<14	130J	<14	31	72
Aromatics C9-C10	µg/m³	67	<10	52	47	<10	<10	14	<10	<10	<10	<10	<10	<10
Benzene	µg/m³	11	<2	9.5	9.8	<2	<2	3.2	<2	<2	<2	<2	<2	<2
Butadiene	µg/m³	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Ethyl benzene	µg/m³	15	<2	12	12	<2	<2	3.4	<2	<2	<2	<2	<2	<2
m&p-Xylene	µg/m³	49	<4	38	38	<4	<4	11	<4	<4	7J	<4	5.7	<4
Methyl tert-butyl ether (MTBE)	µg/m³	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Naphthalene	µg/m³	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.3J	<2	<2	<2
o-Xylene	µg/m³	18	<2	14	14	<2	<2	3.9	<2	<2	3J	<2	3.5	<2
Toluene	µg/m³	66	4.4	55	58	4.3	3.9	16	<2	<2	5.5J	<2	2.4	<2
1,1,1-Trichloroethane	µg/m³	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109
1,1,2-Trichloroethane	µg/m³	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109
1,1-Dichloroethane	µg/m³	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
1,1-Dichloroethene	µg/m³	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
1,2,4-Trimethylbenzene	µg/m³	13.3	0.732	12.6	12.7	0.836	1.03	3.31	0.147	0.216	1.6J	<0.098	1.37	0.103
1,2-Dichloroethane	µg/m³	1.3	2.33	1.44	1.4	2.74	2.13	4.74	<0.081	<0.081	0.101J	<0.081	<0.081	<0.081
1,2-Dichloropropane	µg/m³	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092
1,3-Dichlorobenzene	µg/m³	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.18J	<0.12	<0.12	<0.12
1,4-Dichlorobenzene	µg/m³	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.198J	<0.12	<0.12	<0.12
Benzene	µg/m³	9.35	0.735	8.78	8.54	0.837	0.68	2.79	0.501	0.463	0.744J	<0.224	0.574	<0.224
Bromodichloromethane	µg/m³	<0.134	0.107J	<0.134	<0.134	0.120J	0.0940J	<0.134	<0.134	<0.0670	<0.134	<0.0670	<0.134	<0.0670
Bromoform	µg/m³	<0.206	<0.207	<0.206	<0.206	<0.207	<0.207	<0.206	<0.206	<0.207	<0.206	<0.207	<0.206	<0.207
Butadiene	µg/m³	0.102	0.086	0.102	0.093	0.106J	0.058J	0.124	<0.044	0.044	<0.044	<0.044	0.044	<0.044
Carbon tetrachloride	µg/m³	0.534	0.402	0.603	0.566	0.484	0.402	0.578	0.509	0.396	0.17J	0.17	<0.126	<0.126
Chlorobenzene	µg/m³	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092
Chloroform	µg/m³	0.185	0.249	0.254	0.244	0.293J	0.381J	0.229	0.102	0.107	0.298J	0.303	1.58	1.66
cis-1,2-Dichloroethene	µg/m³	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
Dichloromethane (Methylene chloride)	µg/m³	<1.74	<1.74	<1.74	<1.74	11.1J	3.27J	<1.74	<1.74	<1.74	<1.74	20.1	<1.74	<1.74
Ethyl benzene	µg/m³	12.3	0.53	11.7	11.8	0.586J	0.76J	3.33	0.152	0.213	1.42J	<0.087	1.06	<0.087
Ethylene dibromide	µg/m³	<0.154	<0.0770	<0.154	<0.154	<0.0770	<0.0770	<0.154	<0.154	<0.0770	<0.154	<0.0770	<0.154	<0.0770
Isopropylbenzene	µg/m³	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46
Methyl tert-butyl ether (MTBE)	µg/m³	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	0.4	<0.072
Naphthalene	µg/m³	<0.723	<0.131	<0.608	<0.571	0.435J	0.246J	<0.267	<0.262	0.215J	2.38J	<0.131	<0.262	<0.131
Tetrachloroethene	µg/m³	0.176	<0.136	0.183	0.183	<0.136	0.156J	0.264	0.149	<0.136	0.258J	0.325	0.23	0.305
Toluene	µg/m³	52.5	3.24J	50.7	51.9	3.29J	4.22	14.3	0.885	1.37J	4.48J	0.305	2.06	<0.188
trans-1,2-Dichloroethene	µg/m³	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
trans-1,3-Dichloropropene	µg/m³	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
Trichloroethene	µg/m³	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107
Vinyl Chloride	µg/m³	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Xylenes (unspecified)	µg/m³	54.8	2.22	51.6	51.9	2.44J	3.31J	14.5	0.512	0.808	8.38J	<0.261	8.4	<0.261

Notes:

IA = Indoor Air sample

OA= Outdoor Air sample

SS = Subslab Soil gas sample

BD = Duplicate sample

< = Compound less than laboratory reporting limit (compound not detected)

J = Compound detected below method quantitation limit, estimated value provided